

Mr. Michael T. Davis
Algebra II - Delta & Eta

Kuta Software - Infinite Algebra 1

Name Mr. Davis Solutions

Simplifying Radical Expressions

Date _____ Period _____

Simplify.

1) $\sqrt{125n} = 5\sqrt{5n}$

2) $\sqrt{216v} = 6\sqrt{6v}$

3) $\sqrt{512k^2} = 16|k|\sqrt{2}$

4) $\sqrt{512m^3} = 16|m|\sqrt{2m}$

5) $\sqrt{216k^4} = 6k^2\sqrt{6}$

6) $\sqrt{100v^3} = 10v\sqrt{v}$

7) $\sqrt{80p^3} = 4p\sqrt{5p}$

8) $\sqrt{45p^2} = 3|p|\sqrt{5}$

9) $\sqrt{147m^3n^3} = 7|mn|\sqrt{3mn}$

10) $\sqrt{200m^4n} = 10m^2\sqrt{2n}$

11) $\sqrt{75x^2y} = 5|x|\sqrt{3y}$

12) $\sqrt{64m^3n^3} = 8|mn|\sqrt{mn}$

13) $\sqrt{16u^4v^3} = 4u^2v\sqrt{v}$

14) $\sqrt{28x^3y^3} = 2|xy|\sqrt{7xy}$